GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
STARRED QUESTION NO. 250
TO BE ANSWERED ON 04.01.2018

GENERATION OF SOLAR POWER

*250. SHRI RAHUL SHEWALE:
SHRI BHARTRUHARI MAHTAB:

Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a): whether the Government is lagging behind in achieving the targets set for generation of solar power in the country;

(b): if so, the details thereof and the reasons therefor;

(c): the details of the funds provided by the Government for generation and creation of additional capacity of solar power in the country during each of the last three years and the current year, State/UT-wise; and

(d): the other steps taken by the Government for promoting the use of solar power in the country?

ANSWER

THE MINISTER OF STATE FOR POWER AND NEW & RENEWABLE ENERGY (I/C) (SHRI R. K. SINGH)

(a) to (d): A Statement is laid on the Table of the House.

****

STATEMENT REFERRED TO IN REPLY TO LOK SABHA STARRED QUESTION NO. 250 FOR 04.01.2018 REGARDING GENERATION OF SOLAR POWER

(a) and (b): The Government have planned to install 100 GW of capacity through solar projects by 2022. Against this target, grid connected solar capacity of 16.68 GW has been installed as on 15.12.2017 with another 6.50 GW under implementation. The trajectory for bidding of solar power projects has been finalized as under:-

Year	Total tenders planned (In GW)
2017-18	20*
2018-19	30
2019-20	30

* Of this, 3.6 GW capacity has already been bid out.

(c): State-wise budgetary allocations are not made under the schemes/programmes. However, details of amount released by the Ministry for generation and creation of additional capacity of solar power in the country during last three years and current year are given below:-

Year	Total funds released (Rs. Crore)
2014-15	1158.19
2015-16	3146.24
2016-17	2590.59
2017-18 (as on 31.12.2017)	1577.84

The state-wise details of funds released during the last three years and current year under few schemes are given in **Annexure.**

(d): The Government have launched several schemes for promotion of solar energy in the country providing fiscal and promotional incentives such as capital and/or interest subsidy, accelerated depreciation, waiver of Inter State Transmission System (ISTS) charges and losses, viability gap funding (VGF), financing solar rooftop systems as part of home loan, preferential tariff for power generation through renewables, and permitting Foreign Direct Investment up to 100 per cent under the automatic route.

In addition, Government provides capital subsidy for setting up of manufacturing units for solar cells and modules and the entire value chain under Modified Special Incentive Package Scheme (M-SIPS) through the Ministry of Electronics and Information Technology.

***** ***** *****

ANNEXURE REFERRED TO IN REPLY TO PART (C) OF LOK SABHA STARRED QUESTION NO. 250 FOR 04.01.2018

DETAILS OF FUNDS RELEASED UNDER THE NATIONAL SOLAR MISSION

(I) PILOT-CUM-DEMONSTRATION PROJECT FOR DEVELOPMENT OF GRID-CONNECTED SOLAR PV POWER PLANTS ON CANAL BANKS AND CANAL TOPS

State-wise details are given below:

CFA Released by SECI to Project Implementing Agencies Under Canal Top & Canal Bank Solar PV Scheme							
Sl. No.	State	Implementing Agency	Project Details		CFA Released (Rs. in crore)		
			Project Type	Capacity (MW)	FY 2015-16	FY 2016-17	Total
1	Andhra Pradesh	New and Renewable Energy Development Corporation of Andhra Pradesh (NREDCAP)	CT	1	0.58	0.32	0.90
2		Andhra Pradesh Power Generation Corporation Limited (APGENCO)	CB	5	1.50	1.50	3.00
3	Gujarat	Sardar Sarovar Narmada Nigam Limited (SSNNL)	CT & CB	10 & 15	10.50	10.32	20.82
4	Karnataka	Krishna Bhagya Jala Nigam Limited (KBJNL)	CT	10	4.82	3.39	8.21
5	Kerala	Kerala State Electricity Board Limited (KSEB)	CT&CB	2 & 1	1.50	1.21	2.71
6	Punjab	Punjab Energy Development Agency (PEDA)	CT	20	12.00	3.00	15.00
7	Uttar Pradesh	Uttar Pradesh Irrigation Department	CT	3.5 & 2.5	2.83	0.0	2.83
8	Uttarakhand	Uttarakhand Jal Vidyut Nigam Limited	CT & CB	1 & 19	6.30	6.30	12.60
9	West Bengal	West Bengal State Electricity Distribution Company Limited (WBSEDCL)	CB	10	3.00	4.80	7.80
Total of CFA to States			**CT& CB**	**50 + 50**	**43.03**	**30.83**	**73.86**

CT: Canal Top, CB: Canal Bank
Note: No funds released during 2017-18.

(II) DEVELOPMENT OF SOLAR PARKS AND ULTRA MEGA SOLAR POWER PROJECTS

(As on 31-12-2017)

Year wise CFA Released under the Solar Park Scheme

(Rs. in Crore)

Sl. No.	State	Solar Park	Agency/ Authority	2014-15	2015-16	2016-17	2017-18	Total
1	A & N	NTPC	NTPC	0	0.2525	0	0	0.2525
2	Andhra Pradesh	Ananthapuramu Solar Park	APSPCL	73.5775	63.015	0	0	136.5925
		Kurnool Solar Park		50.7525	40.4	0	18.1175	109.27
		Kadapa solar park		0	0	10.35	10.1	20.45
		Ananthapuramu-II Solar Park		0	0	5.3	5.048	10.348
		Ext Trans Infra for Ananthapur Solar Park	PGCIL	0		26.7410125	33.52375	60.2647625
		Ext Trans Infra for Kurnool Solar Park	APTRANSCO	0		31.131735	43.608265	74.74
3	Arunachal Pradesh	Lohit Solar Park	APDA	0	0.25	0.824665	0	1.074665
4	Chhattisgarh	Solar Park in Chhattisgarh	CREDA	0	0.25	0	0	0.25
5	Gujarat	Radnesada Solar Park	GPCL	2.7775	30.667135	0	0	33.444635
		Harsad Solar Park		0	0	0	0.25	0.25
6	Haryana	Solar Park in Haryana	SUN Haryana	0	0.25	0	0	0.25
7	Himachal Pradesh	Solar Park in HP	HPSEB	0	0.2525	0	0	0.2525
8	Jammu and Kashmir	Solar Park in J&K	JAKEDA	0	0	0.25	0	0.25
9	Karnataka	Pavagada Solar Park	KSPDCL	0	90.5	80.8	0	171.3
		Ext Trans Infra for Pavagada Solar Park	PGCIL	0	0	28.28	12.12	40.4
10	Kerala	Kasargod Solar Park	RPCKL	0	2.27	0	0	2.27
11	Madhya Pradesh	Neemuch-Mandsaur Solar Park	RUMSL	1.515	0	0	0	1.515
		Rewa Solar Park		1.515	31.98	30.3	8.9235	72.7185
		Rajgarh-Morena Solar Park		0	0	0.25	0	0.25
		Chhatarpur Solar Park		0	0	0.25	0	0.25
		Ext Trans Infra for Rewa Solar Park	PGCIL	0	0	25.755	4.545	30.3

Sl. No.	State	Solar Park	Agency/ Authority	2014-15	2015-16	2016-17	2017-18	Total
12	Maharashtra	Sai Guru Solar Park	MEDA	0	0.25	5.05	0	5.3
		Patoda Solar Park		0	0.25	5.05	0	5.3
		Dandoicha Solar Park		0	0.25	0	0	0.25
13	Manipur	Bukpi Solar Park	MTDC	0	0	0	0.25	0.25
14	Meghalaya	Solar Park in Meghalaya	MePGCL	0	0.25	0	0	0.25
15	Mizoram	Vankal Solar Park	P & E Dept	0	0	0	0.25	0.25
16	Nagaland	Solar Park in Nagaland	DNRE	0	0.25	0	0	0.25
17	Odisha	Solar Park in Odisha	GEDCOL	0	0	0.25	0	0.25
18	Punjab	Solar Park in Punjab	PEDA	3.03	0	0	0	3.03
19	Rajasthan	Bhadla Ph-II Solar Park	RRECL	33.7775	28.272	0	0	62.0495
		Bhadla Ph-III Solar Park		0	46.2525	4.5	17.788751	68.541251
		Bhadla Ph-IV Solar Park		0	0.25	27.27	24.24	51.76
		Phalodi-Pokaran Solar Park		0	0.25	0	0	0.25
		Fatehgarh 1B Solar Park		0	0.25	0	0	0.25
		Jaisalmer Ph I Solar Park		0	10.3525	0	0	10.3525
		Nokh Solar Park		0	0	0	0.25	0.25
		Ext Trans Infra for Bhadla-II, III, IV SP	RVPN	0	0	50.81451	0	50.81451
		Ext Trans Infra for Bhadla-III & Bhadla-IV	PGCIL	0	0	30.2592	0	30.2592
20	Tamil Nadu	Kadaladi Soalr Park	TNEB	0	0	0	0.25	0.25
21	Telangana	Gattu Solar Park	TNREDCL	2.7775	0	0	0	2.7775
22	Uttar Pradesh	UP Solar Park	LSPDCL	2.7775	18.261	0	0	21.0385
		Ext Trans Infra for UP solar park	UPPTCL	0	0	0	17.363415	17.363415
23	Uttarakhand	SIIDCUL Solar Park	SIIDCUL	0	0.25	2.3558249	0	2.6058249
24	West Bengal	Solar Park in West Bengal	WBSEDCL	0	0.2525	2.121	0	2.3735
Total				**172.5**	**365.727635**	**367.9029474**	**196.628181**	**1102.75876**

(III) GRID CONNECTED SOLAR ROOFTOPS

(Rs. in Crore)

Sl. No.	State/UTs	2014-15	2015-16	2016-17	2017-18 (as on 31.12.2017)
		Released amount	Released amount	Release Amount	Release Amount
1	Andhra Pradesh	2.41	3.87	9.150	4.8191391
2	Assam	0.00	0.00	38.4615	0.0000000
3	Andaman & Nicober	0.00	0.00	0.525	7.0032000
4	Chhattisgarh	0.00	3.60	5.495	3.2984324
5	Delhi	0.00	5.76	19.467	21.4000000
6	Gujarat	0.00	4.50	17.43	23.1750000
7	Goa	0.00	1.44	0.00	0.0000000
8	Haryana	0.00	3.60	16.2225	0.0000000
9	J& K	0.00	0.00	3.675	0.0000000
10	Jharkhand	0.00	0.00	12.7125	0.0000000
11	Kerala	0.00	4.68	4.05	9.4140000
12	Karnataka	0.00	0.00	2.52	0.0000000
13	Lakswadeep	0.00	0.00	0.455	0.0000000
14	Madhya Pradesh	0.00	1.24	31.95588	3.1356578
15	Maharashtra	0.00	0.00	23.175	0.0000000
16	Odisha	0.00	2.88	0.86	1.6068000
17	Puduchhery	0.00	0.00	1.1045000	0.0000000
18	Punjab	0.00	9.22	4.50	0.0000000
19	Rajasthan	0.00	4.26	14.79	11.6802000
20	Tamil Nadu	0.00	8.23	69.67	0.0000000

21	Telangana	0.00	3.78	20.12	2.7222855
22	Tripura	0.00	0.00	0.00	0.7000000
23	Uttarakhand	0.01	22.13	25.973	10.3500000
24	Uttar Pradesh	0.00	5.86	1.16	2.3174000
25	West Bengal	0.00	3.09	0.17	6.3000000
26	Chandigarh	1.26	9.09	6.72	1.7257228
27	Manipur	0.00	0.91	8.11	0.0000000
28	Himachal Pradesh	0.00	0.00	5.4315	0.0000000
29	Mizoram				4.5423000
30	Arunachal Pradesh	0.00	0.00	0.0000	14.0595000
	Sub- Total	3.68	98.14	343.89	128.2496376
31	PSU/Govt Department	0.00	18.52	74.7439	16.5235337
32	SECI	0.00	128.00	250.00	0.0000000
33	NISE	0.00	2.62	0.00	0.0000000
34	TERI	0.00	0.09	0.00	0.00
35	others (NFDC)	0.00	0.017	9.380	0.00
	Total	3.68	247.39	678.01	144.7731713

(IV) OFF-GRID SPV SCHEME

State-wise details of funds released for Solar Off grid applications for the last three years and current year (upto 31.12.2017)

(Rs. In lakhs)

	States/UTs	2014-15	2015-16	2016-17	2017-18
1	Andhra Pradesh	3205	10368	3953	6530
2	Arunachal Pradesh	261	57	694	155
3	Assam	57	439	1358	377
4	Bihar	648	1541	0	0
5	Chhattisgarh	3014	3327	6549	11163
6	Delhi	102	124	0	0
7	Gujarat	1689	1797	2608	2622
8	Haryana	624	1922	0	0
9	Himachal Pradesh	1628	4100	2650	0
10	Jammu & Kashmir	1915	4395	2466	0
11	Jharkhand	651	1551	0	555
12	Karnataka	834	66	3901	0
13	Kerala	2370	965	2359	778
14	Lakshadweep	0	375	0	0
15	Madhya Pradesh	1570	41	66	2536
16	Maharashtra	3431	2442	0	0
17	Manipur	147	1160	442	0
18	Meghalaya	573	312	1354	167
19	Mizoram	702	753	1354	1266
20	Nagaland	350	555	1501	772
21	Odisha	1294	195	1700	609
22	Puducherry	26	0	0	0
23	Punjab	1024	824	0	0
24	Rajasthan	11489	20063	6711	3647
25	Sikkim	141	28	282	0

26	Tamil Nadu	2939	8262	207	0
27	Telangana	2232	1502	0	2070
28	Tripura	113	347	1372	0
29	Uttarakhand	115	2510	373	0
30	Uttar Pradesh	4481	3851	1896	2666
31	West Bengal	167	34	0	0
32	Chandigarh	276	0	0	0
33	Others/NABARD/Channel Partners etc.	13411	26515	11266	26207
	Total	61479	100421	55065	62120